IN THE CLAIMS

This listing of claims replaces all prior listings:

- 1. (currently amended) A computing environment, comprising:
- an operating system;
- a virtual machine operating on said operating system;
- a first application operating on said virtual machine;
- a second application operating on said virtual machine; and
- a first firewall control block, wherein said first firewall control block defines access privileges of said first application with respect to said second application, and further defines the access privileges of said second application with respect to said first application[[,]]; and
- a second firewall control block, wherein said second firewall control block defines access privileges of said second application with respect to said first application, and further defines the access privileges of said first application with respect to said second application,

wherein said first firewall control block and the second firewall control block each includes a firewall control value and a firewall control indicator, the firewall control value including an application identifier data having a resource identifier and a proprietary identifier extension, the firewall control indicator being an indicator value represented by one or more bytes that indicate how the firewall control value should be interpreted with respect to access privileges of other applications, and

wherein when said firewall control indicator of said first firewall control block has a first indicator value, said first firewall control block compares said first application's proprietary identifier extension of said second firewall control block to said second application's proprietary identifier extension of said second firewall control block, and when said firewall control indicator of said first firewall control block has a second indicator value, said first firewall control block compares said first application's proprietary identifier extension and resource identifier of said first firewall control block to said second application's proprietary identifier extension and resource identifier of said second firewall control block.

2. (canceled)

3. (original) A computing environment as recited in claim 1, wherein said first firewall control block defines access privileges of said first application with respect to any other application in said computing environment, and further defines the access privileges of said any other application with respect to said first application.

4-5. (canceled).

- 6. (previously presented) A computing environment as recited in claim 1, wherein said computing environment is a JavaTM compliant computing environment, and wherein said first and second applications are JavaTM compliant applets.
- 7. (canceled).
- 8. (previously presented) A computing environment as recited in claim 1, wherein said computing environment is a JavaTM card compliant computing environment, and,

wherein said first firewall control block is implemented as in the run rime environment.

- 9. (currently amended) A mobile computing device, comprising: an operating system;
- a JavaTM compliant virtual machine operating on said operating system;
- a first JavaTM compliant applet operating on said JavaTM compliant virtual machine;
- at least one other JavaTM compliant applet operating on said JavaTM compliant virtual machine; and
- a first firewall control block, wherein said first firewall control block defines access privileges of said first JavaTM compliant applet with respect to the at least one other JavaTM compliant applet operating on said JavaTM compliant virtual machine, and further defines the access privileges of said at least one other JavaTM compliant applet JavaTM compliant applet with respect to said first JavaTM compliant applet[[,]]; and

a second firewall control block, wherein said second firewall control block defines access privileges of said at least one other JavaTM compliant applet with respect to the first JavaTM

compliant applet operating on said JavaTM compliant virtual machine, and further defines the access privileges of said first JavaTM compliant applet with respect to said at least one other JavaTM compliant applet,

wherein said first firewall control block and said second firewall control block each includes a firewall control value and a firewall control indicator, the firewall control value including an application identifier data having a resource identifier and a proprietary identifier extension, the firewall control indicator being an indicator value represented by one or more bytes that indicate how the firewall control value should be interpreted with respect to access privileges of other JavaTM compliant applets applet, and

wherein when said firewall control indicator of said first firewall control block has a first indicator value, said first firewall control block compares said first JavaTM compliant applet's proprietary identifier extension of said first firewall control block to said at least one other JavaTM compliant applet's proprietary identifier extension of said second firewall control block, and when said first JavaTM compliant applet's proprietary identifier extension and resource identifier of said first firewall control block to said at least one other JavaTM compliant applet's proprietary identifier extension and resource identifier of said second firewall control block.

10. (original) A mobile computing device as recited in claim 9, wherein said mobile device is a JavaTM compliant smart card.

11-14. (canceled).

- 15. (previously presented) A mobile computing device as recited in claim 10, wherein for a firewall control block is defined for every JavaTM compliant applet.
- 16. (currently amended) A method of providing security for a JavaTM compliant computing environment that includes a JavaTM virtual machine and a plurality of JavaTM compliant applets that operate on said JavaTM virtual machine, said method comprising:

receiving a request from a first JavaTM compliant applet operating on <u>a</u> JavaTM virtual machine to access a second JavaTM compliant applet, the first JavaTM compliant applet having a first firewall control block associated with it and the second JavaTM compliant applet having a second firewall control block associated with it;

reading [[a]] the second firewall control block associated with said second JavaTM compliant applet, said <u>first</u> firewall control block <u>and said second firewall control block each</u> including a firewall control value and a firewall control indicator, the firewall control value including an application identifier data having a resource identifier and a proprietary identifier extension, the firewall control indicator being an indicator value represented by one or more bytes that indicate how the firewall control value should be interpreted with respect to access privileges of the <u>respective</u> first or second JavaTM compliant applet;

determining, based on said <u>second</u> firewall control block, whether said first JavaTM compliant applet should be allowed to access said second JavaTM compliant applet by determining whether said firewall control value <u>of said second firewall control block</u> has a first indicator value or a second indicator value, wherein

when said firewall control indicator <u>of said second firewall control block</u> has a first indicator value, said <u>second</u> firewall control block compares said <u>first JavaTM</u> compliant applet's proprietary identifier extension <u>of said first firewall control block</u> to said <u>second JavaTM</u> compliant applet's proprietary identifier extension <u>of said second firewall control block</u>, and

when said firewall control indicator of said second firewall control block has a second indicator value, said second firewall control block compares said first JavaTM-compliant applet's proprietary identifier extension and resource identifier of said first firewall control block to said second JavaTM-compliant applet's proprietary identifier extension and resource identifier of said second firewall control block; and

allowing said first JavaTM compliant applet to access said second JavaTM compliant applet when said determining determines that access should be allowed.

17. (currently amended) A method as recited in claim 16, wherein said method further comprises:

providing a reference to said first JavaTM compliant applet with a reference to said second JavaTM compliant applet when said determining determines that access should be allowed.

18. (currently amended) A method as recited in claim 16, wherein said providing of a reference comprises:

invoking a first method implemented that is implemented as a part of \underline{a} JavaTM management environment or JavaTM system environment; and

invoking a second method that is implemented as a Applet class, as a result of said invoking of the second method.

19-21. (canceled).

22. (currently amended) A computer readable media including computer program code for providing security for a computing environment, said computer readable media comprising:

computer program code for receiving a request from a first application to access a second application, the first application having a first firewall control block associated with it and the second application having a second firewall control block associated with it;

computer program code for reading [[a]] the second firewall control block associated with said second application, said <u>first</u> firewall control block <u>and said second firewall control block each</u> including a firewall control value and a firewall control indicator, the firewall control value including an application identifier data having a resource identifier and a proprietary identifier extension, the firewall control indicator being an indicator value represented by one or more bytes that indicate how the firewall control value should be interpreted with respect to access privileges of the <u>respective first or</u> second application;

determining, based on said <u>second</u> firewall control block, whether said first application should be allowed to access said second application by determining whether said firewall control value <u>of said second firewall control block</u> has a first indicator value or a second indicator value, wherein

when said firewall control indicator of said second firewall control block has a first indicator value, said second firewall control block compares said first application's proprietary

identifier extension of said first firewall control block to said second application's proprietary identifier extension of said second firewall control block, and

when said firewall control indicator of said second firewall control block has a second indicator value, said second firewall control block compares said first application's proprietary identifier extension and resource identifier of said first firewall control block to said second application's proprietary identifier extension and resource identifier of said second firewall control block; and

allowing said first application to access said second application when said determining determines that access should be allowed.